Defense Information Infrastructure (DII)

Common Operating Environment (COE)

Version 3.2

Kernel 3.2.0.0
Errata Sheets for
for
HP 10.20

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Prepared for:

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DII COE 3.2 HP-UX 10.20 Errata Sheets

1. Introduction

This document contains the latest known problems and error information available as of the date of release of this publication.

1.1 System Audit Files

When C2 security is running on the DII COE Kernel 3.2.0.0 version for HP-UX 10.20, there are two audit files that grow rather large in size. The future versions of the kernel will have mechanisms to handle these files, but this is being provided as a work around until they are available. The current work around is to archive these files and then periodically delete the archives. The two files of concern are "audfile1" and "audfile2". Both of these files are found in the /.secure/etc directory on each machine. The recommended location of archiving these files is to a separate partition or machine in possible. Failure to archive the files off of the "/" partition will cause the machine's root partition to fill up and prevent the machine from being used.

1.2 HP-UX 10.20 OS Considerations

1.2.1 umask Bug Corrected

In the HP-UX 10.10 OS, HP reported a bug in the umask. As a result, developers were notified to remove the umask 022 in /sbin/rc. This problem has been corrected in the HP-UX 10.20 OS and, therefore, there is no longer a requirement to remove the umask 022 .

1.2.2 Device Name Changes

It should be noted that this errata was submitted for and pertinent to the Navy developers as it was discovered during the JMCIS related UB testing. At the time of distribution of the DII COE Version 3.2 for HP-UX 10.20 platform, it was uncertain if the problems indicated below would impact other developers as well. Thus, this errata is published for general information purposes only.

After loading the HP-UX 10.20 OS, log in as root and cd to the /dev/rmt directory. Note that the names of the tape devices are not the same as in the HP-UX 9.0.7 OS.

1. The ID of the DAT drive is c0t30BESTx for TAC-3 and C1t30BESTx for J210 vice the IDs of 3m and 3mn in the old HP-UX 9.0.7.

2. In most cases, there are device IDs of 0m, 0mn, 0mb and 0mnb. These are also IDs for the DAT drives.

3. The device IDs that end in the letter Ab@ stand for ABERKELEY@ and the ones without the Ab@ stand for AAT&T.@ For UB/JMCIS, use the DAT drive IDs that end with the letter Ab.@ Failure to do so will cause problems when creating segments or pulling files from DAT tapes.

1.2.3 Compressed/Non-compressed Files

This errata information item is of particular importance to developers who still utilize HP-UX 9.07 OS based machines for the development/distribution of HP-UX 10.20 based segment tapes. When the HP-UX 10.20 OS is loaded, it will auto-detect whether the DAT drive has its Acompression@ switch set to ON. If ON, it will configure all tar files to the DAT drive in compressed format. If that tape is used in a DAT drive which does not have a compression switch, or does not have the switch set ON, a Atar read error@ occurs.

A test tar to a DAT tape, after loading 10.20, and then a tar tvf on a 9.0.7 system is recommended. If the DAT tape drive is generating compressed tar files then create a DAT drive device ID in /dev/rmt that will not use compression.

1. Login as root and start up Asam.@
2. Select APeripheral Drives,@ then select ATape Drives.@
3. Under ATape Drive Admin@ highlight the DAT drive and select AAction,@ then select ACreate Devices Files.@
4. In ACreate Devices Files,@ select ACreate Custom Devices Files.@
5. When the window opens:
    a. Set ADensity@ to DDS2.
    b. Select Berkeley in the AT&T/Berkeley Semantics sub-window.
    c. Set compress mode to OFF
    d. Select AOK.@

This will create a DAT drive device ID of c0t30DDS2b in /dev/rmt. Next, create a DAT drive device ID with the Ano rewind@ option set.

1. Repeat steps 1-5 above, and add the following step to step 5.
2. Turn off the ARewind at Close@ option.

This will create a DAT drive device ID in /dev/rmt of c0t30DDS2nb.

1.3 Kernel 3.2.0.0

1.3.1 COE Installer

There is a bug in the COEInstaller with respect to the environment variable $INSTALL_DIR. This environment variable is **not** set until **after** the DEINSTALL script has run. Therefore, if developers use the $INSTALL_DIR variable without setting it up in their DEINSTALL script, the deinstall will fail.

The problem arises if developers use their $INSTALL_DIR as follows, without the variable being previously initialized:

```
if ($?INSTALL_DIR) then

     setenv XXX_HOME   $INSTALL_DIR

else

     setenv XXX_HOME   /h/XXX

endif
```

When more than one segment is deinstalled at the same time, the $INSTALL_DIR for the last segment deinstalled is used rather than the home directory of the developer=s segment. Therefore, it is necessary to manually set the $INSTALL_DIR variable in the DEINSTALL script by adding this code at the beginning of the script:

```
unset INSTALL_DIR
set INSTALL_DIR = /h/XXX
```

where XXX = the name of the segment directory

1.3.1.1 COEInstaller Errata

When executing the COEInstaller from the command line, do the following:

1. Open an Xterm or Dterm.
2. Execute the following commands at the command line:

   "**csh**"
   "**setenv DISPLAY unix:0.0**"
   "**COEInstaller** "

if you desire to run the installer in debug mode in the last line you add the **-d** switch to the command (i.e., **COEInstaller -d**)